

Title (en)  
METAL-ORGANIC FRAMEWORKS FOR GAS ADSORPTION

Title (de)  
METALL-ORGANISCHE RAHMEN ZUR GASADSORPTION

Title (fr)  
STRUCTURES ORGANOMÉTALLIQUES POUR ADSORPTION DE GAZ

Publication  
**EP 3897921 A1 20211027 (EN)**

Application  
**EP 19897884 A 20191220**

Priority

- NZ 2019050163 W 20191220
- AU 2018904882 A 20181221

Abstract (en)  
[origin: WO2020130856A1] Disclosed are metal organic frameworks (MOFs) for adsorbing guest species, methods for the separation of gases using the MOFs, and systems comprising the MOFs. The MOFs comprise a plurality of secondary building units (SBUs), each SBU comprising a repeating unit of one metal cation connected to another metal cation via a first moiety of an organic linker; a layer of connected adjacent SBUs in which a second moiety of the linker in a first SBU is connected to a metal cation of an adjacent SBU, and wherein adjacent layers are connected to each other via linker-to-linker bonding interactions

IPC 8 full level  
**B01D 53/02** (2006.01); **B01D 53/62** (2006.01); **B01J 20/22** (2006.01); **C07C 229/76** (2006.01)

CPC (source: AU EP US)  
**B01D 53/02** (2013.01 - AU EP); **B01D 53/0462** (2013.01 - US); **B01D 53/047** (2013.01 - US); **B01D 53/485** (2013.01 - AU); **B01D 53/52** (2013.01 - AU); **B01D 53/565** (2013.01 - AU); **B01D 53/62** (2013.01 - AU US); **B01D 53/72** (2013.01 - AU); **B01J 20/226** (2013.01 - AU EP); **B01J 20/2803** (2013.01 - EP); **B01J 20/28061** (2013.01 - EP); **B01J 20/28071** (2013.01 - EP); **B01J 20/2808** (2013.01 - EP); **B01J 20/3425** (2013.01 - EP); **B01J 20/3458** (2013.01 - EP); **B01J 20/3483** (2013.01 - EP); **B01J 20/3491** (2013.01 - EP); **C01B 37/00** (2013.01 - US); **C07C 229/76** (2013.01 - AU); **C07F 15/065** (2013.01 - US); **B01D 2253/204** (2013.01 - AU EP US); **B01D 2253/306** (2013.01 - EP); **B01D 2253/308** (2013.01 - EP); **B01D 2253/311** (2013.01 - EP); **B01D 2256/24** (2013.01 - EP); **B01D 2257/2062** (2013.01 - EP); **B01D 2257/2068** (2013.01 - EP); **B01D 2257/30** (2013.01 - EP); **B01D 2257/304** (2013.01 - AU EP); **B01D 2257/306** (2013.01 - AU); **B01D 2257/402** (2013.01 - EP); **B01D 2257/404** (2013.01 - AU); **B01D 2257/408** (2013.01 - AU EP); **B01D 2257/504** (2013.01 - AU EP US); **B01D 2257/702** (2013.01 - AU); **B01D 2257/7022** (2013.01 - EP); **B01D 2257/7025** (2013.01 - EP); **B01D 2257/708** (2013.01 - EP); **B01D 2257/80** (2013.01 - AU EP); **B01D 2258/02** (2013.01 - EP); **B01D 2258/05** (2013.01 - EP); **B01D 2258/06** (2013.01 - EP); **B01D 2259/40086** (2013.01 - EP); **B01J 8/02** (2013.01 - AU); **B01J 31/1691** (2013.01 - AU); **B01J 2220/46** (2013.01 - AU); **B01J 2220/50** (2013.01 - AU); **B01J 2220/56** (2013.01 - EP); **B01J 2220/58** (2013.01 - EP); **B01J 2540/66** (2013.01 - AU); **B01J 2540/68** (2013.01 - AU); **C07F 13/005** (2013.01 - AU); **C07F 15/045** (2013.01 - AU); **C07F 15/065** (2013.01 - AU); **Y02C 20/10** (2013.01 - EP); **Y02C 20/20** (2013.01 - EP); **Y02C 20/40** (2020.08 - EP)

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